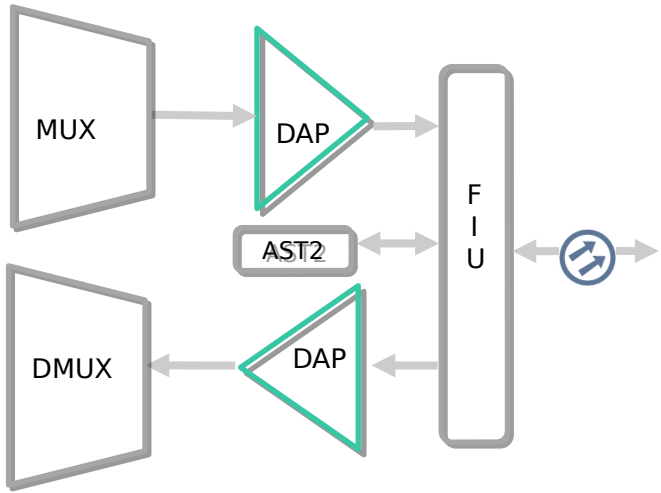
TMB1DAP

The DAP board is an C-band dual-channel pluggable OA base board that amplifies optical signals. The boards are configured at the transmit and receive ends of the equipment respectively.

Initial Version: V100R019C10

Application



Function

Function	Description
Service transmission with varying fiber spans without using electrical regeneration	Supported
In-service optical performance monitoring	Supported
Gain locking	Supported
Working mode	In the gain locking mode, the gain of the board is tunable and the user can query the actual gain of the board.
Transient state control	Supported
Alarms and performance events monitoring	Supported
Gain adjustment	TN15OAC101: 20dB～31dB TN15OAC103: 24dB～36dB TN15OAC106: 16dB～23dB TN15OBC103/TN15OBC107: The gain of the board cannot be adjusted.

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Optical Specifications (with the optical amplifier module

Parameter	Value		
	TN15OAC101		
Operating wavelength range（nm）	1528.5 to 1561.5		
Nominal input power range（dBm）	-20 to 0	-26 to -6	-32 to -11
Input power range per wavelength（dBm）	40 channels: -20 to -16 80 channels: -20 to -19	40 channels: -26 to -22 80 channels: -26 to -25	40 channels: -32 to -27 80 channels: -32 to -30
Nominal per-wavelength input optical power（dBm）	40 channels: -16 80 channels: -19	40 channels: -22 80 channels: -25	40 channels: -27 80 channels: -30
Nominal per-wavelength output optical power（dBm）	40 channels: 4 80 channels: 1	40 channels: 4 80 channels: 1	40 channels: 4 80 channels: 1
Noise figure （NF）	<=8 dB	<= 5.5 dB	<= 5.5 dB
Channel gain（dB）	20 to 31		
Gain flatness（dB）	<= 2.0		
Maximum total output optical power（dBm）	20		
Polarization dependent loss（dB）	<= 0.5		
Input VOA adjustment accuracy（dB）	1		

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Optical Specifications (with the optical amplifier module

Parameter	Value		
	TN15OAC103		
Operating wavelength range（nm）	1528.5 to 1561.5		
Nominal input power range（dBm）	-24 to -4	-29 to -9	-32 to -16
Input power range per wavelength（dBm）	40 channels: -24 to -20 80 channels: -24 to -23	40 channels: -29 to -25 80 channels: -29 to -28	40 channels: -32 80 channels: -32
Nominal per-wavelength input optical power（dBm）	40 channels: -20 80 channels: -23	40 channels: -25 80 channels: -28	40 channels: -32 80 channels: -32
Nominal per-wavelength output optical power（dBm）	40 channels: 4 80 channels: 1	40 channels: 4 80 channels: 1	40 channels: 4 80 channels: 1
Noise figure （NF）	<= 7 dB	<= 5.5 dB	<= 5.5 dB
Channel gain（dB）	24 to 36		
Gain flatness（dB）	<= 2.0		
Maximum total output optical power（dBm）	20		
Polarization dependent loss（dB）	<= 0.5		
Input VOA adjustment accuracy（dB）	1		

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Optical Specifications (with the optical amplifier module

Parameter	Value		
	TN15OAC106		
Operating wavelength range（nm）	1528.5 to 1561.5		
Nominal input power range（dBm）	-16 to 4	-19 to 1	-24 to -3
Input power range per wavelength（dBm）	40 channels: -16 to -12 80 channels: -16 to -15	40 channels: -19 to -15 80 channels: -19 to -18	40 channels: -24 to -19 80 channels: -24 to -22
Nominal per-wavelength input optical power（dBm）	40 channels: -12 80 channels: -15	40 channels: -15 80 channels: -18	40 channels: -19 80 channels: -22
Nominal per-wavelength output optical power（dBm）	40 channels: 4 80 channels: 1	40 channels: 4 80 channels: 1	40 channels: 4 80 channels: 1
Noise figure （NF）	< 7.5 dB	< 6.5 dB	< 5.5 dB
Channel gain（dB）	16 to 23		
Gain flatness（dB）	<= 2.0		
Maximum total output optical power（dBm）	20		
Polarization dependent loss（dB）	< 0.5		
Input VOA adjustment accuracy（dB）	1		

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Optical Specifications (with the optical amplifier module TN15OBC103)

Parameter	Value
	TN15OBC103
Operating wavelength range（nm）	1528.5 to 1561.5
Nominal input power range（dBm）	-32 to -3
Input power range per wavelength（dBm）	40 channels: -32 to -19 80 channels: -32 to -22
Nominal per-wavelength input optical power（dBm）	40 channels: -19 80 channels: -22
Nominal per-wavelength output optical power（dBm）	40 channels: 4 80 channels: 1
Noise figure （NF）	< 5.5 dB
Channel gain（dB）	23
Gain flatness（dB）	<= 2.0
Maximum total output optical power（dBm）	20
Polarization dependent loss（dB）	< 0.5
Input VOA adjustment accuracy（dB）	1

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Optical Specifications (with the optical amplifier module TN15OBC107)

Parameter	Value		
	TN15OBC107		
Operating wavelength range (nm)	1528.5 to 1561.5		
Nominal input power range (dBm)	-15 to 7	-15 to 6	-15 to 5
Input power range per wavelength (dBm)	40 channels: -15 to -9 80 channels: -15 to -12	40 channels: -15 to -10 80 channels: -15 to -13	40 channels: -15 to -11 80 channels: -15 to -14
Nominal per-wavelength input optical power (dBm)	40 channels: -9 80 channels: -12	40 channels: -10 80 channels: -13	40 channels: -11 80 channels: -14
Nominal per-wavelength output optical power (dBm)	40 channels: 7 80 channels: 4	40 channels: 6 80 channels: 3	40 channels: 5 80 channels: 2
Noise figure (NF)	< 10 dB	<10 dB	<10 dB
Channel gain (dB)	16		
Gain flatness (dB)	<= 2.0		
Maximum total output optical power (dBm)	23	22	21
Polarization dependent loss (dB)	< 0.5		
Input VOA adjustment accuracy (dB)	1		

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Slot

Single-width board	
E6608T	Slots 1 to 6
E6608	Slots 1 to 6
E6616	Slots 1 to 14

Mechanical specifications

Weight (kg/lb.)	Typical Power Consumption (W)	Maximum Power Consumption (W)
0.62 (1.36)	6.0	7